

Name of Faculty Dr M.MAMATHA  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 09-11-2010  
 E-mail mamatha\_chm@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy	Awarded
PG	M.Sc. (Organic Chemistry)	First class with Distinction
UG	B. Sc. (BZC)	First class with Distinction

**Work Experience**

Teaching	19Years
Research	05 years
Industry	4.5 years
Others	--
Area of Specialization	Organic Chemistry (Synthesis of drug molecules)

**Professional Memberships**

1. Editorial Board Member for peer-reviewed international journal named "International Journal of Theoretical and Applied Chemistry" from January 2022 to December 2024.
2. Life member, The Indian Science Congress Association, Membership number: L25552 since September 2014.
3. Editorial board member of open access journal named "Far East Journal of Chemistry" from march 2018 to December 2021.
4. Lifelong member of Indian Society for Technical Education (ISTE) with membership number LM 134335 from March 2022 onwards.
5. Lifelong Member of IAENG (International Association of Engineerings. Membership number: 303065 from Jan 21st 2022 to till date.
6. contributed as member of the Reviewer Committee in "3rd International Conference on Information Management & Machine Intelligence (ICIMMI-2021) " held during December 23-24, 2021 at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan.
7. Scientific advisor for Anax Laboratories, Nacharam since June 2018.

**Responsibilities held at Institution Level**

**Responsibilities held at Department Level**

1. Member, Board of Studies from 2013 to till date.
2. NBA Coordinator from 2016 to till date.
3. IQAC member from 2016 to till date.
4. ARIIA, IIC member from 2016 to till date.
5. NAAC coordinator from April 2022 onwards

**Research Guidance**

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**Awards Received**

1. Best Teacher Award" for performing unique, commendable, resourceful and consistently significant contribution in the field of education by 2nd National Educators & Researchers Convention & Awards 2020.
2. Bharat Ratna Dr Abdul Kalam Gold Medal Award for individual achievement and national development" by GEPR, Tamilnadu India, 2018.
3. Recipient of 3 years Senior Research fellowship under CSIR 2000
4. Recipient of 2 years Junior Research fellowship under CSIR 1998.
5. Qualified in June NET –UGC 1998& December NET -

	CSIR,1998.
	6. Qualified in SLET,1997
	7. GATE All India 416 rank in1996
	8. Pingali Bhanumathy prize for securing highest marks inB.Sc part II, 1994
	9. Pingali Bhanumathy prize for securing highest marks in B.Sc Botany,1994.
Courses Handled at Under Graduate / Post Graduate Level.	Engineering chemistry, Applied chemistry, Organic chemistry, Inorganic chemistry, Physical chemistry and General chemistry.
No of papers published	National: 2 International: 8
Patents	-
Technology Transfer	-
Invited Speaker	-
No. of Books/Chapter Published with details	1. Book Title: "Frontiers of Chemical Sciences" , Chapter Title: Green Chemistry and Environmental Sustainability, Chapter 14, pp 87-91, 2022, Navanila Maruthi Publication, Coimbatore, India 642001, ISBN 978-81-951871-2-6. 2. Author of book titled "Applied Chemistry" ISBN: 978-81-967493-8-5, Year 2023
Details of Short-Term Training Programs/FacultyDevelopmentPrograms/Seminars/Workshops.Other Trainings (Attended and/or organized).	<ol style="list-style-type: none"> <li>1. Participated in One week online <b>Faculty Development Program</b> on "Quality Education through OBE" organized by Chaitanya Bharathi Institute of Technology(Autonomous), Gandipet, Hyderabad-500 075, Telangana, India., in association with IEEE Education Society Student Branch Chapter CBIT during 22nd - 27th January 202</li> <li>2. Participated in one week <b>Faculty Development Program</b> on "Accelerate Research" conducted by Department of Information Technology, Anurag university during 14th - 18th March 2023.</li> <li>3. Participated in five days National Level Virtual <b>Faculty Development Program</b> on "Research Methodology" organized by PG &amp; Research Department of Commerce, SKPAS college for women in association with IQAC from 13th Feb to 17th Feb 2023.</li> <li>4. Successfully Finished <b>Training program</b> on "Basics of IPR Course (equivalent 10-hours workload) organized by Turnip innovations from 22nd to 28th November 2022.</li> <li>5. Participated in IP <b>Awareness/Training program</b> under National Intellectual Property Awareness Mission on 4th November 2022 Organised by Intellectual Property Office, India under NIPAM (National IP Awareness Program).</li> <li>6. Completed a one week online <b>Faculty Development Program</b> on "Role of Chemistry in Advanced Engineering Materials (RCAEM-2022)" organised by Department of Chemistry, Vasavi College of Engineering (A), Hyderabad from 10th to 15th October 2022</li> <li>7. Participated in IP <b>Awareness/Training program</b> under National Intellectual Property Awareness Mission on September 27, 2022 Organised by Intellectual Property Office, India under NIPAM (National IP Awareness Program</li> <li>8. Participated in one-day online <b>workshop</b> in Intellectual Property Commercialisation conducted by Turnip Innovations Pvt Ltd, Kolkata on 21st Jan 2023</li> <li>9. Participated in online quiz on "Constitution of India" conducted by Government of India, Ministry of External Affairs on 28th November 2022</li> <li>10. Participated in <b>INTERNATIONAL SYMPOSIUM ON "NEW TRENDS IN IOT</b> organized by IcfaiTech, The ICFAI University, Jaipur in association with NASSCOM FUTURE PRIME Skills and IE T(UK) on November 18, 2022</li> <li>11. Successfully completed SWAYAM NPTEL Online Certification Course on "Chemistry of Main Group Elements" conducted during Jan-Apr 2022, 12 Week course by IIT Bombay.</li> <li>12. Participation in the 5-Day <b>Faculty Development Programme</b></li> </ol>

on “Enhancing Research Eco-system in the Campus” organized by the Research & Development Cell MALLA REDDY ENGINEERING COLLEGE, MEDCHAL (M) TELANGANA – 500100 from 22nd to 26th August 2022.

13. Participated in the AICTE Recognized **Faculty Development Programme** on a “Smart Materials Processing and Applications” Conducted by National Institute of Technical Teachers Training and Research, Chandigarh, under Ministry of Human Resource Development, Government of India, Applied Science Department from 25/07/2022 to 29/07/2022 (One Week) at CBIT, Gandipet, Hyderabad.
14. Participated in IP **Awareness/Training program** under National Intellectual Property Awareness Mission on 28th June 2022 organised by Intellectual Property Office, NIPAM,

Government of India.

12. Successfully completed SWAYAM NPTEL-AICTE **Faculty Development Program** funded by MOE, Government of India on “Chemistry of Main Group Elements” conducted during Jan-Apr 2022, 12 Week course by IIT Bombay.
13. Participated in the International Virtual One Week **Faculty Development Program** on Tools and Techniques in Research Organized by Amar Singh College, Cluster University Srinagar, Gogji Bagh, Srinagar, Jammu and Kashmir, India in collaboration with Cape Comorin Trust, India from 07th to 13th March 2022.
14. Attending International Level **Faculty Development Programme** titled “INNOVATIVE APPROACHES FOR OUTCOME BASED TEACHING LEARNING IN HIGHER EDUCATION” fro 21st to 27th February 2022 organized by Ajeenkya DY Patil University and Research Culture Society
15. Has successfully completed Power and Beauty Entwined: Accelerating Chemistry Research with Modern Tools hosted by C & en and sponsored by Perkin Elmer on 21st Feb 2022.
16. participated in the International **Virtual Faculty Development Program** on Enhancing Research and Writing organized by Research and Development Cell, AVP College of Arts and Science, Tiruppur, Tamil Nadu, India in collaboration with Cape Comorin Trust, India from 07.02.2022 to 13.02.2022 February 2022.
17. successfully completed ISTE approved Online/SF-**STTP/FDP** Programme on “Polymer Composite” held during 03.01.2022

to 07.01.2022 organized by St. Francis Institute of Technology, Mumbai, Maharashtra in association with Indian Society for Technical Education Shaheed Jeet Singh Marg New Delhi – 110 016.

18. Participated in 5-day **Faculty Development Programme** on "Advance Concepts in Chemistry" under DBT-Star College Scheme, organized by Department of Chemistry, Bhavan's Vivekananda College of Science, humanities & Commerce, Sainikpuri, Secunderabad from 22nd-26th November 2021
19. Participated in **Faculty Development Programme** on "Innovative Practices in Chemical Sciences" Organized by Department of Chemistry in collaboration with Sarojini Naidu Vanitha Mahavidyalaya from 23 - 28 September 2021.
20. Participated in Seven Days Online **Faculty Development Programme** on Online Chemistry Teaching organized by the Department of Chemistry, MES Ponnani College in association with SIAS Research Forum during 10th -16th July 2021.
21. **presented a research paper** entitled (Oral) "Chemistry of 1,1,1,5,5,5-trifluoro methyl ketone and its reaction with Grignard's reagent." in the "International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021)" during June 28-30, 2021 jointly organized by GITAM School of Science, Hyderabad & GITAM Institute of Science, Visakhapatnam
22. Participated in the one week **faculty development on "Research Practices in Thermo-Fluid and Renewable Energy Systems"** organised by department of mechanical engineering, Sreenidhi Institute of Science and Technology, Yamnampet, Ghatkesar, Hyderabad, Telangana 501301, from 28th June 2021 to 3rd July 2021
23. Participated in one week **FDP** on "IPR and patent prosecution organised by dept. of computer science and engineering in association with Institution Innovation Council (IIC), MVSREC, Hyderabad from 24th may to 28th May 2021
24. **Coordinator** for for one week **Faculty Development program** conducted by Department of Chemistry, CBIT from 8th to (12th March 2021 on "Recent Trends in Advanced Materials Science and Engineering Technology"
25. Completed an online **COURSERA COURSE** in "Introduction to Molecular Spectroscopy" by School of Chemistry, University of Manchester with 90.67% grade on 29th Jan 2021
26. Attended 1-hour Independence Day **Webinar** on "IPR:Key to



- India's Future Journey" conducted by Head IP and Research Collaboration, Tata Steel on 14th Aug, 2021.
27. Attended live **webinar** on IPR "Strategy and Cleantech Innovation conducted by Turnip Innovations Pvt. Ltd. on 16th July 2021.
  28. Attended "Integrating Scopus in Research Workflow" at Elsevier on Wednesday 14 July, 2021 organised by Researcher Academy on Campus
  29. Participated in the 2-day National **Workshop** on "Chemistry in Everyday Life" during 17th -18th April 2021 conducted by the Department of Chemistry, School of Advanced Sciences (SAS), VIT-AP University
  30. **Faculty coordinator for organizing guest lecture** on "Conservation of water and Environmental Sustainability" under Institute Innovation Council, CBIT on 30th January, 2020.
  31. **Presented a poster** on for the International Conference on Drug Discovery 2020 at BITS-Hyderabad, 29th Feb - 2nd Mar 2020
  32. **12-week NPTEL Online Certification course** on "Principles of Organic Synthesis" from July-October 2019 under Swayam Portal.
  33. 12-week NPTEL-AICTE **Faculty Development Program** on "Principles of Organic Synthesis" from July- October 2019 under Swayam Portal.
  34. One week **Short Term Training Programme** through ICT Mode on NBA Accreditation organized by National Institute of Technical Teachers Training and Research, Kolkata from 22nd to 26th April 2019.
  35. Two weeks Science Academics **Refresher Course** on "Upskilling Chemistry Teachers on Latest pedagogical Tools for Impactful Teaching" organized by Science Academics and department of science and Humanities at VFSTR Vignana Deemed University, from 27th November to 11th December 2018.
  36. UGC sponsored 45th **Orientation Course** conducted by JNTU, Hyderabad from 11. TH July to 8th August 2016
  37. One day Faculty Development Programme on Teaching with Technology" organized by IQAC, Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad on 30th December 2019.
  38. Participated in one day **workshop** on "Recent Trends in Materials and its Applications in Engineering" organized by department of Physics, CBIT on 20th November 2019.
  39. "Two Day Rural Immersion **Training Programme** on Swachhatha Action Plan and Community Engagement" held on 14th and 15th November 2019 organized by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, MHRD, Hyderabad in collaboration with CBIT, Hyderabad, Telangana.
  40. Tech Tara" organized by dept of CSE, CBIT on 6<sup>th</sup> and 7<sup>th</sup> March 2019.
  41. One day symposium on "Significance of Sanskrit for Technological Research" organized by Geervana Bharathi of Technology on 8<sup>th</sup> September 2018.
  42. One week **Faculty Development Workshop** on "Teaching and Learning Chemical Spectroscopy through hands on experience" organized by Department of Chemistry, NIT Warangal during 11th to 16<sup>th</sup> September 2017.

#### **Details of Journal Publications/ Conferences (National and International) from the year 2017**

##### **International /National Journals from the Year 2017:**

1. Published a research paper titled "CHALLENGES AND IMPACT OF GREEN CHEMISTRY CONCEPTS ON SUSTAINABLE ENVIRONMENTAL DEVELOPMENT", European Chemical Bulletin., ISSN 2063-5346, April 2023; Volume -12 , Special Issue-1(Part-B) : Page: 1923-1937.
2. Published a research paper titled "The Development of Terminal Alkynes in Water Using DEMATEL Method" in Journal on Materials and its Characterization, Volume 1 Issue 1, September 2022, Page No: 17-27, ISSN:2583-6412.
3. "Synthesis of 2-alkyl/aryl-3-aminobenzo[h]Quinazolin-4(3H)-ones and 2-alkyl/aryl-3-arylideneimino benzo[h]Quinazolin-4(3H)-ones" paper was published in Gedrag & Organisatie Review, Volume 35, Issue 2 (April-June) 2022, ISSN /eISSN : 0921-5077 / 1875-7235.
4. "Heterocycles based on naphthalene-A review"; GEDRAG & ORGANISATIETREVIEW - ISSN:0921-

5077; VOLUME 34 : ISSUE 02 - 2021 (April - June). Pg 811 - 855.

5. Mamatha M, Narendra Babu, K Kiran & H Mastan, (2021), "Chemistry of 1,1,1, -Trifluoro methyl ketone and its reaction with Grignard reagent"; GEDRAG & ORGANISATIE REVIEW - ISSN:0921-5077; Volume 34, Issue 2 (April-June 2021), pg 66-73.
6. Mamatha M, (2021), Heterocycles based on naphthalene-A review"; GEDRAG & ORGANISATIE REVIEW –ISSN:0921-5077; VOLUME 34, ISSUE 02 - 2021 (April - June).
7. Mamatha M, (2020), "Microwave Assisted One Pot Synthesis of Benzo[h] Quinazolin-4(3H)-ones", Science and Engineering Journal, ISSN: 0103-944X; Volume 24; Issue 11, 2020, S. No 3, page 27-30.
8. Mamatha M, Narendra Babu, K Kiran & H Mastan, (2020), "Synthesis and Characterization of Impurity F in 4-amino-N-(5-methylisoxazol-3-yl) benzene sulfonamide drug synthesis", World Journal of Pharmacy and Pharmaceutical Sciences, Volume 9, Issue 3, 889-893, 2020.
9. Mamatha M, Narendra Babu, K Kiran & H Mastan, (2019), "Synthesis of Prochloroperazine related compound A impurity formed during chlorpromazine drug preparation", Journal of Pharma Research, vol 8, Issue 5, 2019, ISSN 2319-5622, page 66-73.

**Papers presented at International Conference from the Year 2017:**

1. Given a paper presentation titled "A Greener way of synthesizing Benzo(h) Quinazolin-4-(3H)-ones under microwave conditions" in a National Conference on "Recent Advances in Green & Sustainable Chemical Sciences" sponsored by Telangana State Council of Higher Education organized by Department of Chemistry, St Pious X College for Women, Hyderabad held on 20-21 January 2023.
2. Presented a paper on "Quality Enhancement in Higher Education: Role of a teacher" in 1st International conference on Academic Research in Developing Countries held from 29th August to 30th August 2022
3. Given a Paper Presentation (Oral) titled "Chemistry of 1,1,1,5,5,5-trifluoro methyl ketone and its reaction with Grignard's reagent." in the "International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021)" during June 28-30, 2021 jointly organized by GITAM School of Science, Hyderabad & GITAM Institute of Science, Visakhapatnam.
4. Given a Paper Presentation (Oral) titled "Green Chemistry and Environmental Sustainability" UGC Sponsored National Seminar on "Human Rights & Environmental Protection" conducted by department of Chemistry KRR Govt, Science College, Kodad on 20<sup>th</sup> & 21<sup>st</sup> January, 2017
5. j, Given a Paper Presentation (Oral) titled "Chemistry of 1,1,1,5,5,5-trifluoro methyl ketone and its reaction with Grignard's reagent." in the "International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021)" during June 28-30, 2021 jointly organized by GITAM School of Science, Hyderabad & GITAM Institute of Science, Visakhapatnam.

